

Title (en)
PROJECTOR CONFIGURATION WITH SUBDIVIDED OPTICAL APERTURE FOR NEAR-EYE DISPLAYS, AND CORRESPONDING OPTICAL SYSTEMS

Title (de)
PROJEKTORKONFIGURATION MIT UNTERTEILTER OPTISCHER APERTUR FÜR NAHFELDDANZEIGEN UND ENTSPRECHENDE OPTISCHE SYSTEME

Title (fr)
CONFIGURATION DE PROJECTEUR AVEC OUVERTURE OPTIQUE SUBDIVISÉE POUR AFFICHAGES PROCHES DE L' IL, ET SYSTÈMES OPTIQUES CORRESPONDANTS

Publication
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Application
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Priority
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Abstract (en)
[origin: US2019346609A1] An optical system for displaying a projected image to an observer includes a light-guide optical element having two major parallel surfaces and configured for guiding illumination corresponding to a projected image collimated to infinity by internal reflection at the major parallel surfaces from a coupling-in region to a coupling-out region where at least part of the illumination is coupled out towards an eye of the observer, and a projector configuration associated with the coupling-in region of the light-guide optical element. The projector configuration includes a number of adjacent optical arrangements, each including collimating optics deployed for projecting a subset of the illumination. The adjacent optical arrangements cooperate to provide an entirety of the projected image to the coupling-out region.

IPC 8 full level
G02B 27/01 (2006.01); **G02B 3/00** (2006.01)

CPC (source: EP IL KR US)
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